

WHAT IS CLAIMED IS:

1. Method for touchless recognition of biometric attributes of a body part, in particular of finger lines, comprising optical imaging from different points of view by several imaging facilities, observing and/or checking the position and/or the attitude of the body part to be recognized and/or correcting the images of the imaging facilities regarding the position and/or the attitude, wherein the shape of the body part is used, characterized in that the observing, checking and/or correcting are carried out mutually using the imaging facilities respectively and thereby, acquiring position, attitude and degree of rotation.
2. Method according to claim 1, characterized in that a spatial, three-dimensional profile of the body part to be recognized and of its surface is created.
3. Method according to claim 1, characterized in that the image sharpness is used as a criterion for reaching the specified position.
4. Method according to one of the preceding claims, characterized in that a transformation of the attributes of the body part to be recognized to a given normal attitude and normal position of a reference model and/or a reference image are applied using the measured values of position and attitude.
5. Method according to one of the preceding claims, characterized in that an optical and/or acoustical feedback is given to the user if or until a secure recognition is not possible despite of a calculational transformation.
6. Method according to claim 5, characterized in that the feedback is given including an indication of the type and the direction of a change of attitude and/or bearing required for a secure recognition.
7. Method according to one of the preceding claims, characterized in that, in the case of recognition of finger lines, the finger and its shape is imaged and processed from the finger tip to at least beyond the adjacent hinge and that at least one angle of a hinge is thereby used for

observing, checking and/or correcting of the images.

8. Method according to one of the preceding claims, characterized in that, in the case of recognition of finger lines, the nail surface visible from different points of view respectively is used as an attribute for determining the degree of rotation.